## IN THE CLAIMS

The following listing of the claims is provided in accordance with 37 C.F.R. §1.121:

- 1. (original) A device comprising a mechanical structure micromachined in or on a substrate, said mechanical structure comprising a compliant support structure, and a member supported by said compliant support structure, wherein said compliant support structure changes size or shape during movement of said member.
- 2. (original) The device as recited in claim 1, wherein said member comprises a membrane and a first electrode supported by said membrane, and further comprising a second electrode disposed at a distance from said first electrode to form a capacitor with a cavity disposed therebetween, wherein said compliant support structure changes size or shape during compression/expansion of said membrane.
- 3. (original) The device as recited in claim 2, further comprising a pedestal, said second electrode being supported by said pedestal.
- 4. (original) The device as recited in claim 2, wherein said compliant support structure comprises a first wall, a ring-like structure having an inner peripheral portion and an outer peripheral portion, one of said inner and outer peripheral portions being built on said first wall, and a second wall built on the other of said inner and outer peripheral portions and connected to said membrane.
- 5. (original) The device as recited in claim 4, further comprising a third electrode formed on a surface of said ring-like structure.

- 6. (original) The device as recited in claim 5, further comprising a fourth electrode formed on a surface of said membrane and forming a capacitor with said third electrode.
- 7. (original) The device as recited in claim 5, further comprising a fourth electrode formed on a surface of said substrate and forming a capacitor with said third electrode.
- 8. (original) The device as recited in claim 2, wherein said compliant support structure in cross section resembles a cantilevered beam
- 9. (original) The device as recited in claim 2, wherein said compliant support structure comprises:
  - a first wall;
- a first ring-like structure having an inner peripheral portion and an outer peripheral portion, one of said inner and outer peripheral portions of said first ring-like structure being built on said first wall;
- a second wall built on the other of said inner and outer peripheral portions of said first ring-like structure;
- a second ring-like structure overlying said first ring-like structure and having an inner peripheral portion and an outer peripheral portion, one of said inner and outer peripheral portions of said second ring-like structure being built on said second wall; and
- a third wall built on the other of said inner and outer peripheral portions of said second ring-like structure and connected to said membrane.
- 10. (original) The device as recited in claim 9, further comprising a third electrode formed on a surface of one of said first and second ring-like structures.

- 11. (original) The device as recited in claim 2, wherein said compliant support structure in cross section resembles a double cantilevered beam.
- 12. (original) The device as recited in claim 2, wherein the compliance of said compliant support structure and the stiffness of said membrane are selected so that said membrane vibrates in a piston-like manner.

## 13. - 29. (canceled)

- 30. (original) A cMUT cell comprising a substrate, a plurality of compliant support structures, a membrane supported over a cavity by said compliant support structures, a first electrode supported by said membrane, and a second electrode that forms a capacitor with said first electrode, said cavity being disposed between said first and second electrodes, wherein each of said compliant support structures change size or shape during compression/expansion of said membrane.
- 31. (original) The cMUT cell as recited in claim 30, wherein said shape is a cantilever beam.
- 32. (original) The cMUT cell as recited in claim 30, wherein said shape is an arch.
- 33. (original) The cMUT cell as recited in claim 30, wherein said shape is a coil

## 34. - 35. (canceled)